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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**Box PATENT APPLICATION**  
**Assistant Commissioner for Patents**  
**Washington, D.C. 20231**

**NEW APPLICATION TRANSMITTAL UNDER 37 C.F.R. 1.53(b)**

Transmitted herewith for filing is a patent application of:

Inventor: Tim Carroll  
Aaron Giles

For: System and Method for Emulating the Operation of a Video Graphics Adapter

This new application is an original (nonprovisional) patent application.

Enclosed are: (a) Fourteen (14) pages of specification;

(b) Six (6) pages of claims;

(c) One (1) page of abstract; and


(d) Five (5) sheets of drawings.

This application is submitted without a filing fee or declaration.

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Figure 1: A schematic diagram of a 1D lattice chain with  $N$  sites. The sites are labeled  $1, 2, \dots, N$ . The chain is divided into two halves by a vertical dashed line. The left half contains sites  $1, 2, \dots, N/2$ , and the right half contains sites  $N/2+1, N/2+2, \dots, N$ . The sites are connected by horizontal lines representing nearest-neighbor interactions. The diagram is labeled "Figure 1" at the bottom.